


<b>Material Safety Data Sheet</b> according to (EC) 1907/2006	
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## SECTION 1: Identification of the substance/preparation and of the company/undertaking

### 1.1. Product identifier

Name of product: **BLUE-BLOKKER**

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### Use of the substance/mixture

Light curing dental resin for technical applications

### 1.3. Details of the supplier of the safety data sheet

#### Manufacturer / distributor

SCHEU DENTAL GmbH

Am Burgberg 20

D-58642 Iserlohn

Tel. +49 (2374) 9288-0

Fax +49 (2374) 9288-90

eMail: [service@SCHEU-DENTAL.com](mailto:service@SCHEU-DENTAL.com)

Internet: [www.SCHEU-DENTAL.com](http://www.SCHEU-DENTAL.com)

### 1.4. Emergency telephone number: +49 (2374) 9288-0

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

#### Hazard categories:

Reproductive toxicity: Repr. 1B

Hazardous to the aquatic environment: Aquatic Chronic 3

#### Hazard Statements:

May damage the unborn child. Suspected of damaging fertility.

Harmful to aquatic life with long lasting effects.

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008

The product is classified and labelled according to the CLP regulation.

Signal word: Danger

Hazard Pictograms: GHS08



#### Hazard statements

H360Df	May damage the unborn child. Suspected of damaging fertility.
H412	Harmful to aquatic life with long lasting effects.

#### Precautionary statements

P201	Obtain special instructions before use.
P280	Wear protective gloves / protective clothing / eye protection.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P273	Avoid release to the environment.
P501	Dispose of contents/container to Dispose of contents/container in accordance with local

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## 2.3. Other hazards

Polymerization with heat evolution may occur in the presence of radical forming substances (e.g. peroxides), reducing substances, and/or heavy metal ions.

## SECTION 3: Composition / information on ingredients

### 3.1. Substances

not applicable

### 3.2. Mixtures

Mixture of acrylic resins and initiators.

#### Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
Index No		
REACH-No		
	7,7,9-(bzw. 7,9,9) Trimethyl-4, 13-dioxo-3, 14-dioxa-5, 12-diaza-hexadecan-1, 16-diol-dimethacrylat	70 – 90 %
72869-86-4	Aquatic Chronic 3; H412	
	Tetrahydrofurfuryl-2-methacrylat	5 – 20 %
2455-24-5	Repr. 1B, H360Df	
278-355-8	Diphenyl (2,4,6-trimethylbenzoyl)phosphinoxid	< 1 %
75980-60-8	Repr. 2, Aquatic Chronic 3; H361f H412	
015-203-00-X		

#### Additional information

For the wording of the listed H-phrases refer to section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>General Information:</b>	Medical treatment is necessary if symptoms occur which are obviously caused by skin or eye contact with the product or by inhalation of its vapours. Take off all contaminated clothing immediately.
<b>After inhalation:</b>	Provide fresh air. Medical treatment necessary.
<b>After contact with skin:</b>	After contact with skin, wash immediately with plenty of water and soap. Immediately remove any contaminated clothing, shoes or stockings. Medical treatment necessary.
<b>After contact with eyes:</b>	After eye contact, rinse immediately carefully and thoroughly with eye-bath or water. Consult an ophthalmologist.
<b>After ingestion:</b>	Do NOT induce vomiting. Medical treatment necessary.

### 4.2. Most important symptoms and effects, both acute and delayed

No further relevant information available.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures


### 5.1. Extinguishing media

#### Suitable extinguishing media

Foam, Fire-extinguishing powder, Carbon dioxide (CO<sub>2</sub>)

#### Unsuitable extinguishing media

Water with full jet.

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## **5.2. Special hazards arising from the substance or mixture**

In case of fire may be liberated: Carbon monoxide. Carbon dioxide Hazardous decomposition products

## **5.3. Advice for firefighters**

### **Special protective equipment for fire fighters:**

In case of fire: Wear self-contained breathing apparatus.

### **Additional information**

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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## **SECTION 6: Accidental release measures**

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### **6.1. Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

### **6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

### **6.3. Methods and material for containment and cleaning up**

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

### **6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

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## **SECTION 7: Handling and Storage**

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### **7.1. Precautions for safe handling**

#### **Advice on safe handling**

Provide good room ventilation even at ground level (vapours are heavier than air). Keep container tightly closed. If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas / fumes / vapour / spray.

#### **Advice on protection against fire and explosion**

In the event of fire, cool the endangered containers with water. Keep away from sources of ignition -

No smoking. Take precautionary measures against static discharges. When heated above the flash point and / or during spraying (atomizing), ignitable mixtures may form in air.

### **7.2. Conditions for safe storage, including any incompatibilities**

#### **Storage:**

##### **Requirements for storage rooms and vessels**

Protect from the action of light. Keep only in the original container at a temperature between 4 – 25 °C.

Can polymerize with intense heat release. Keep container tightly closed.

#### **Information about storage in one common storage facility:**

No further relevant information available.

#### **Storage class:**

### **7.3. Specific end use(s)**

No further relevant information available.

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## SECTION 8: Exposure controls / personal protection

### Additional information about design of technical facilities.

No further data ; see item 7.

#### 8.1. Control parameters

#### 8.2. Exposure controls

##### Protective and hygiene measures:

Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing. Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

##### Hand protection

Gloves should be replaced regularly, especially after extended contact with the product. For each work-place a suitable glove type has to be selected.

##### Eye/face protection

Tightly fitting goggles.

##### Skin protection

Wear suitable protective clothing.

##### Respiratory protection

Breathing apparatus in case of high concentrations, short term: filter appliance, filter A . In case of inadequate ventilation wear respiratory protection.

##### Limitation and supervision of exposure into the environment

No special precautions are necessary if used correctly.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	Gel
Colour	blue
Odour	characteristic
pH-Value:	not determined

#### Changes in the physical state

Melting point	not determined
Initial boiling point and boiling range	not determined
Flash point	> 100 °C
Flammability	
Solid	not applicable
Gas	not applicable
Lower explosion limits	not determined
Upper explosion limits	not determined
Auto-ignition temperature	
Solid	not applicable
Gas	not applicable
Decomposition temperature	not determined
Vapour pressure	not determined
Density	not determined
Water solubility	insoluble
Solubility in other solvents	
The substance is not soluble in water	

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Partition coefficient	not determined
Viscosity / dynamic (at 20 °C)	250 * 1000 mPa·s
Vapour density	not determined
Evaporation rate	not determined

## 9.2. Other information

Solid content not determined

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

Polymerization with heat evolution may occur in the presence of radical forming substances (e.g. peroxides), reducing substances, and / or heavy metal ions.

### 10.4. Conditions to avoid

Protect from the action of light. Keep only in the original container at a temperature between 4 – 25 °C.

Can polymerize with intense heat release.

### 10.5. Incompatible materials

Oxidising agent, Reducing agent, Heavy metals, acids, Alkali (lye)

### 10.6. Hazardous decomposition products

No dangerous decomposition products known.

## SECTION 11: Toxicological Information

### 11.1. Information on toxicological effects

#### Acute toxicity

Based on available data, the classification criteria are not met.

CAS No.	Chemical name			
	Exposure routes	Method	Dose	Species
72869-86-4	7,7,9-(bzw. 7,9,9) Trimethyl-4, 13-dioxo-3, 14 dioxo-5,12-diaza-hexadecan-1, 16-diol dimethacrylat			
	oral	LD50	>2000 mg/kg	Rat
2455-24-5	Tetrahydrofurfuryl-2-methacrylat			
	oral	LD50	4000 mg/kg	Rat
75980-60-8	Diphenyl (2,4,6-trimethylbenzoyl)phosphinoxid			
	oral	LD50	>5000 mg/kg	Rat
				RTECS

#### Primary irritant effect:

Based on available data, the classification criteria are not met.

May cause mild skin and eye irritation.

#### Respiratory or skin sensitization

Based on available data, the classification criteria are not met.

Possible sensitization in case of persons suffering from hypersensitivity.

#### Severe effects after repeated or prolonged exposure

Based on available data, the classification criteria are not met.

Repeated dose toxicity (Tetrahydrofurfuryl methacrylate): Rat, oral, OECD 422 NOAEL: 300 mg/kg

#### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

May damage the unborn child. Suspected of damaging fertility. (Tetrahydrofurfuryl methacrylate)

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## Aspiration hazard

Based on available data, the classification criteria are not met.

## Additional information on tests

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP]. Special hazards arising from the substance or mixture!

## Further information

Product has not been tested. The statement is derived from the properties of the components.

## SECTION 12: Ecological Information

### 12.1. Toxicity

Aquatic toxicity: The classification criteria for this hazard class are not met by definition.

CAS No	Chemical name				
	Aquatic toxicity	Method	Dose	[h] [d]	Species
72869-86-4	7,7,9(bzw. 7,9,9)Trimethyl-4, 13-dioxo-3, 14-dioxa-5,12-diaza-hexadecan-1, 16-diol-dimethacrylat				
	Acute fish toxicity	LC50	10,1 mg/l	96 h	Brachydanio rerio (zebra-fish)
2455-24-5	Tetrahydrofurfuryl-2-methacrylat				
	Acute fish toxicity	LC50	34,7 mg/l	96 h	Pimephales promelas (fathead minnow)
75980-60-8	Diphenyl (2,4,6-trimethylbenzoyl)phosphinoxid				
	Acute crustacea toxicity	EC50	10 – 100mg/l	48 h	

### 12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
72869-86-4	7,7,9-(bzw. 7,9,9)Trimethyl-4, 13-dioxo-3, 14-dioxa-5, 12-diaza-hexadecan-1, 16 diol-dimethacrylat			
	Biodegradation	22 %	28	OECD 301 F

### 12.3. Bioaccumulative potential

The product has not been tested.

### 12.4. Mobility in soil

The product has not been tested.

### 12.5. Results of PBT and vPvB assessment

The product has not been tested.

### 12.6. Other adverse effects

No further relevant information available.

## Further information:

Do not allow uncontrolled discharge of product into the environment. Do not allow to enter into surface water or drains.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

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## Advice on disposal

Small quantities can be polymerized by light and the cured solid material can be disposed of with the regular garbage. Larger quantities must be disposed of following the regulations of the local authorities. Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

## Waste disposal number of waste from residues/unused products 070208

WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of plastics, synthetic rubber and man-made fibres; other still bottoms and reaction residues.

Classified as hazardous waste.

## Waste disposal number of used product 070208

WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of plastics, synthetic rubber and man-made fibres; other still bottoms and reaction residues.

Classified as hazardous waste.

## Waste disposal number of contaminated packaging 070208

WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of plastics, synthetic rubber and man-made fibres; other still bottoms and reaction residues.

Classified as hazardous waste.

## Contaminated packaging

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

## SECTION 14: Transport Information

### Land transport (ADR/RID)

14.1. UN number:	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name:	
14.3. Transport hazard class(es):	
14.4. Packing group:	

### Inland waterways transport (ADN)

14.1. UN number:	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name:	
14.3. Transport hazard class(es):	
14.4. Packing group:	

### Marine transport (IMDG)

14.1. UN number:	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name:	
14.3. Transport hazard class(es):	
14.4. Packaging group:	

### Air transport (ICAO)

14.1. UN number:	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name:	
14.3. Transport hazard class(es):	
14.4. Packaging group:	

## 14.5. Environmental hazards


ENVIRONMENTALLY HAZARDOUS: No

## 14.6. Special precautions for user

No information available.

## 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

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## SECTION 15: Regulatory Information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National regulations:

Water contaminating class (D): 1-slightly water contaminating

#### Employment restrictions

Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.

### 15.2. Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other Information

### Abbreviations and acronyms

ADR	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG	International Maritime Code for Dangerous Goods
IATA	International Air Transport Association
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
CAS	Chemical Abstracts Service (division of the American Chemical Society)
LC50	Lethal concentration, 50 %
LD50	Lethal dose, 50 %

### Full text of H statements

H360Df	May damage the unborn child. Suspected of damaging fertility
H361f	Suspected of damaging fertility
H412	Harmful to aquatic life with long lasting effects

### Further information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.